Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-54. (Canceled)

- 55. (Previously Presented) A method for generating a blood vessel in a mammal, the method comprising administering culture expanded autologous or allogeneic bone marrow stromal cells to said mammal, wherein said cells differentiate into cells of a blood vessel in said mammal, thereby generating a blood vessel.
- 56. (Previously Presented) The method of claim 55, wherein said bone marrow stromal cells are administered to said mammal suffering from a disease, disorder, or condition characterized by a defect in a blood vessel.
- (Previously Presented) The method of claim 55, wherein said mammal is a human.
- (Previously Presented) The method of claim 55, wherein said bone marrow stromal cells are human cells.
- (Previously Presented) The method of claim 55, wherein said bone marrow stromal cells are administered systemically to said mammal.
- (Previously Presented) The method of claim 55, wherein said bone marrow stromal cells are administered intravenously to said mammal.

- (Previously Presented) The method of claim 55, wherein said bone marrow stromal cells are administered intra-arterially to said mammal.
- (Previously Presented) The method of claim 55, wherein said bone marrow stromal cells are administered intraperitoneally to said mammal.
- 63. (Previously Presented) A method for repairing or regenerating a blood vessel in a mammal, the method comprising administering culture expanded autologous or allogeneic bone marrow stromal cells to said mammal, wherein said cells differentiate into cells of a blood vessel in said mammal, thereby repairing or regenerating a blood vessel in said mammal.
- (Previously Presented) The method of claim 63, wherein said mammal is a human.
- (Previously Presented) The method of claim 63, wherein said bone marrow stromal cells are human cells.
- 66. (Previously Presented) The method of claim 63, wherein said bone marrow stromal cells are administered systemically to said mammal.
- (Previously Presented) The method of claim 63, wherein said bone marrow stromal cells are administered intravenously to said mammal.
- 68. (Previously Presented) The method of claim 63, wherein said bone marrow stromal cells are administered intra-arterially to said mammal.
- (Previously Presented) The method of claim 63, wherein said bone marrow stromal cells are administered intraperitoneally to said mammal.

- 70. (Previously Presented) A method of treating a disease, disorder or condition in a mammal wherein said disease, disorder or condition is characterized by a defect in a blood vessel, the method comprising the steps of:
- a) obtaining a bone marrow sample from a donor who is not suffering from a disease, disorder or condition characterized by a defect in a blood vessel and who is syngeneic with said mammal:
 - isolating stromal cells from said sample;
 - c) culture expansion of said stromal cells, and
 - d) administering said culture expanded stromal cells to said mammal.
- (Previously Presented) The method of claim 70, wherein said disorder of the blood vessel is peripheral vascular disease.
- (Previously Presented) The method of claim 70, wherein said mammal is a human.
- (Previously Presented) The method of claim 70, wherein said bone marrow stromal cells are human cells.
- (Previously Presented) The method of claim 70, wherein said bone marrow stromal cells are administered systemically to said mammal.
- 75. (Previously Presented) The method of claim 70, wherein said bone marrow stromal cells are administered intravenously to said mammal.
- 76. (Previously Presented) The method of claim 70, wherein said bone marrow stromal cells are administered intra-arterially to said mammal.

77. (Previously Presented) The method of claim 70, wherein said bone marrow stromal cells are administered intraperitoneally to said mammal.